

Date of issue/ Date of revision : 2012-06-13.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II and Regulation (EC) No. 1272/2008 (CLP) - United Kingdom (UK)

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****METHYL ORANGE INDICATOR**

Catalogue number : 04630213
CAS number : 547-58-0
EC number : 208-925-3
REACH Registration number : Not available.
Product type : Solid.
Other means of identification : Benzenesulfonic acid, p-((p-(dimethylamino)phenyl)azo)-, sodium salt; Benzenesulfonic acid, 4-[2-[4-(dimethylamino)phenyl]diazanyl]-, sodium salt (1:1); Benzenesulfonic acid, 4-[[4-(dimethylamino)phenyl]azo]-, sodium salt; C.I. 13025; C.I. Acid Orange 52
Chemical formula : C₁₄H₁₄N₃O₃S.Na

1.2 Relevant identified uses of the substance or mixture and uses advised against

Reagent.

1.3 Details of the supplier of the safety data sheet

POCH Spolka Akcyjna
44-101 Gliwice, Sowinskiego 11str.
tel.: +48 32 239-21-81; fax: +48 32 239-24-87; e-mail: export@poch.com.pl
e-mail address of person responsible for this SDS : sds@poch.com.pl

1.4 Emergency telephone number

Telephone number : 112

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Acute Tox. 3, H301

Classification according to Directive 67/548/EEC [DSD]

R25

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word

Danger

Hazard statements

Toxic if swallowed.

Precautionary statements

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 Other hazards

Substance meets the criteria for

No.

PBT according to Regulation (EC) No. 1907/2006, Annex XIII

Not available. B: Not available. T: No.

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Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : ☒ Not available.

Other hazards which do not result in classification : ☒ Not available.

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
☒ Sodium 4-(4-dimethylaminophenylazo)benzenesulphonate	EC: 208-925-3 CAS: 547-58-0	100	T; R25 See Section 16 for the full text of the R-phrases declared above.	Acute Tox. 3, H301 See Section 16 for the full text of the H statements declared above.	[A]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

☒ [A] Constituent

☐ [B] Impurity

☐ [C] Stabilizing additive

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : ☒ Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : ☒ Get medical attention immediately. Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : ☒ Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes.
- Ingestion** : ☒ Get medical attention immediately. Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : ☒ No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : ☒ No known significant effects or critical hazards.
- Inhalation** : ☒ Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : ☒ No known significant effects or critical hazards.
- Ingestion** : ☒ Toxic if swallowed.

Over-exposure signs/symptoms

- Eye contact** : ☒ No specific data.

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- Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture : No specific fire or explosion hazard.
Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
metal oxide/oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

- Small spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

6.4 Reference to other sections

- : See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- 7.2 Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
No exposure limit value known.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

DNELs

No DELs available.

PNECs

No PECs available.

8.2 Exposure controls

- Appropriate engineering controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Other skin protection	: ☒ Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: ☒ Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: ☒ Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: ☒ Solid.
Color	: ☒ Orange.
Odor	: ☒ Characteristic.
pH	: ☒ 6,5 [Conc. (% w/w): 0,5%]
Melting point/freezing point	: ☒ Not available.
Initial boiling point and boiling range	: ☒ 300°C
Flash point	: ☒ Not available.
Upper/lower flammability or explosive limits	: ☒ Not available.
Vapor pressure	: ☒ Not available.
Relative density	: ☒ Not available.
Solubility(ies)	: ☒ Very slightly soluble in the following materials: methanol.
Partition coefficient: n-octanol/water	: ☒ Not available.
Auto-ignition temperature	: ☒ Not available.
Decomposition temperature	: ☒ Not available.
Viscosity	: ☒ Not available.
Bulk density	: ☒ 200 to 400 kg/m ³
Molecular weight	: ☒ 327,36 g/mole

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: ☒ No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: ☒ The product is stable.
10.3 Possibility of hazardous reactions	: ☒ Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: ☒ Oxidizing agent.
10.5 Incompatible materials	: ☒ No specific data.
10.6 Hazardous decomposition products	: ☒ Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sodium 4-(4-dimethylaminophenylazo)benzenesulphonate	LD50 Oral	Rat	60 mg/kg	-

Conclusion/Summary : Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitization

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (single exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Eye contact : No known significant effects or critical hazards.

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact : No known significant effects or critical hazards.

Ingestion : Toxic if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

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Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Other information	: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : No.
P: Not available. B: Not available. T: No.

vPvB : Not available.
vP: Not available. vB: Not available.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	UN2811	UN2811	UN2811	UN2811
14.2 UN proper shipping name	POXIC SOLID, ORGANIC, N.O.S. (sodium 4-(4-dimethylaminophenylazo)benzenesulphonate)	POXIC SOLID, ORGANIC, N.O.S. (sodium 4-(4-dimethylaminophenylazo)benzenesulphonate)	POXIC SOLID, ORGANIC, N.O.S. (sodium 4-(4-dimethylaminophenylazo)benzenesulphonate)	Toxic solid, organic, n.o.s. (sodium 4-(4-dimethylaminophenylazo)benzenesulphonate)
14.3 Transport hazard class(es)	6.1 	6.1 	6.1 	6.1 

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14.4 Packing group				
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	Not available.	Not available.	Not available.	Not available.
Additional information	<u>Hazard identification number</u> 60 <u>Limited quantity</u> LQ9 <u>Special provisions</u> 274 614 <u>Tunnel code</u> (E)		<u>Emergency schedules (EmS)</u> F-A, S-A	<u>Passenger and Cargo Aircraft</u> Quantity limitation: 100 kg Packaging instructions: 619 <u>Cargo Aircraft Only</u> Quantity limitation: 200 kg Packaging instructions: 619 <u>Limited Quantities - Passenger Aircraft</u> Quantity limitation: 10 kg Packaging instructions: Y619

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Regulation (EC) No. 1907/2006 (REACH)****Annex XIV - List of substances subject to authorization****Substances of very high concern**

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

Europe inventory : This material is listed or exempted.

Priority List Chemicals : Not listed

International regulations

15.2 Chemical Safety Assessment : Not available.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Acute Tox. 3, H301	On basis of test data

Full text of abbreviated H statements : H301 Toxic if swallowed.

Full text of classifications [CLP/GHS] : Acute Tox. 3, H301 ACUTE TOXICITY: ORAL - Category 3

Full text of abbreviated R phrases : R25- Toxic if swallowed.

Full text of classifications [DSD/DPD] : - Toxic

Date of printing : 2012-06-13.

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Date of issue/ Date of revision : 2012-06-13.

Date of previous issue : 2010-12-02.

Version : 1

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.